

# GLOBAL IMPACT PRODUCTS, LLC

## ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT)

GLOBAL IMPACT PRODUCTS, LLC  
1963 WEST MCNAB RD,  
POMPAÑO BEACH, FL 33069

### INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF  $\pm 1/2$  INCH BASED ON QUANTITIES IN DP CHARTS NOT TO EXCEED THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- THROUGH FRAME:** FOR INSTALLATION INTO WOOD FRAMING USE 1/4" DIAMETER ELCO ULTRACONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- THROUGH FRAME:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4" DIAMETER ELCO ULTRACONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4" MINIMUM EMBEDMENT.
- THROUGH FRAME:** FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #14 GR. 2 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476. MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
  - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
  - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS.
  - ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8" (0.125").

### GENERAL NOTES:

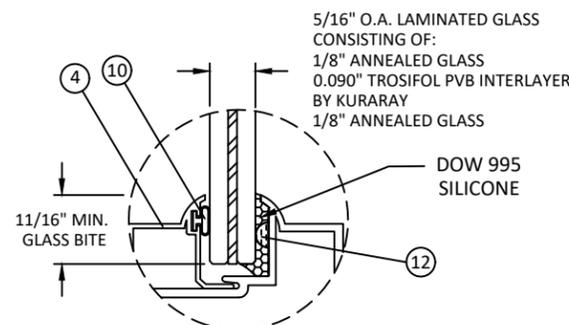
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER OR AHJ.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5/T6
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE GLAZING DETAILS SHEET 1.

TABLE OF CONTENTS	
SHEET	SECTION DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUTS
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS
5	COMPONENTS & BILL OF MATERIAL

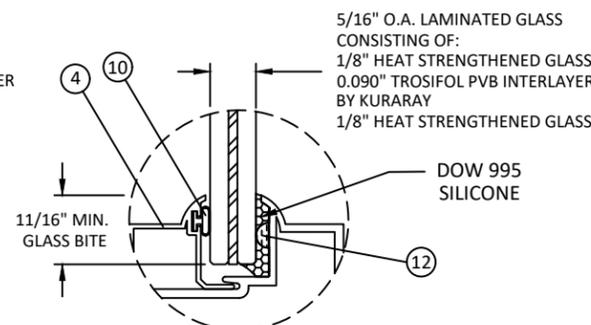
DESIGN PRESSURE TABLE	
GLASS SERIES	DESIGN PRESSURE
SERIES 4030	+60/-65
SERIES 4031	+60/-75
SERIES 4062	+90/-95
SEE SHEET 2 FOR APPROVED SIZES AND ANCHOR INFORMATION	

### GLAZING NOTES:

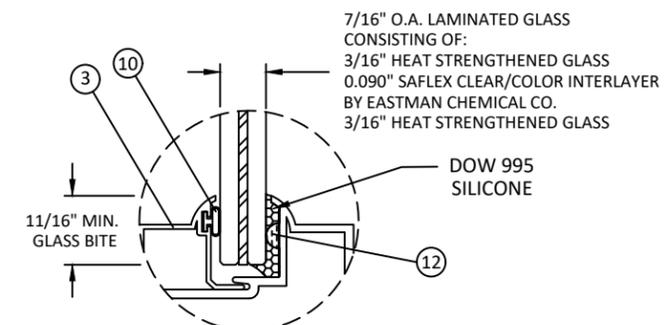
- GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN ELEVATIONS.



**GLAZING DETAIL  
SERIES 4030**



**GLAZING DETAIL  
SERIES 4031**



**GLAZING DETAIL  
SERIES 4062**

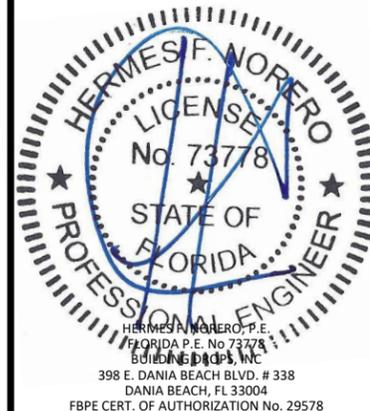
TITLE: ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL#	FL41567
DATE:	04.28.22
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	GIP003
SHEET:	1 OF 5

**GLOBAL IMPACT PRODUCTS, LLC**

1963 WEST MCNAB RD,  
POMPANO BEACH, FL 33069

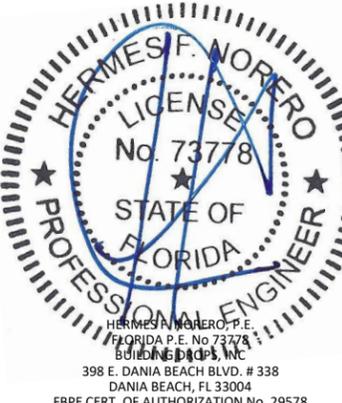
TITLE: ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) ELEVATIONS & ANCHOR LAYOUTS

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL# **FL41567**

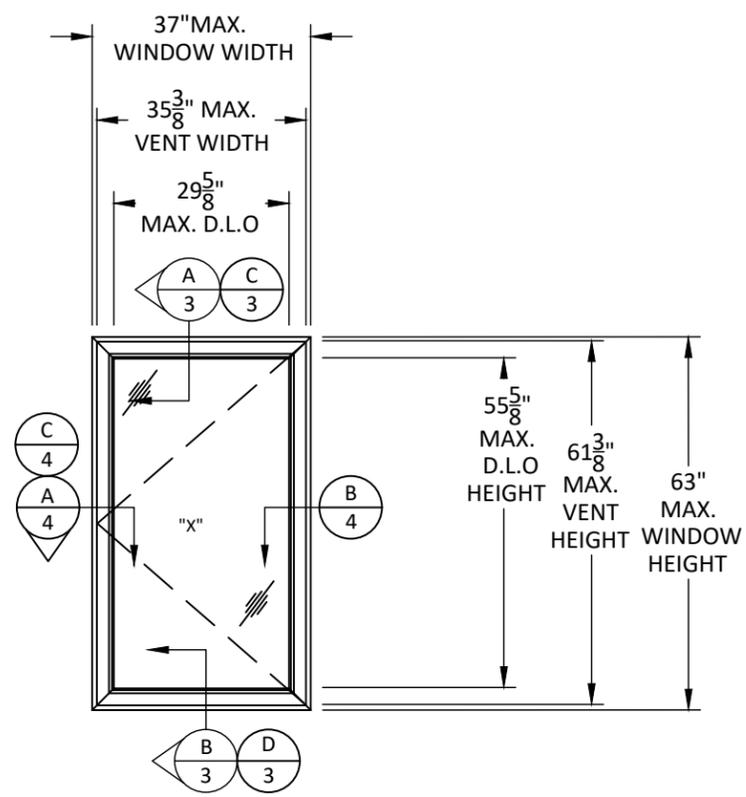
DATE: **04.28.22**

DWG. BY: **YC**      CHK. BY: **HFN**

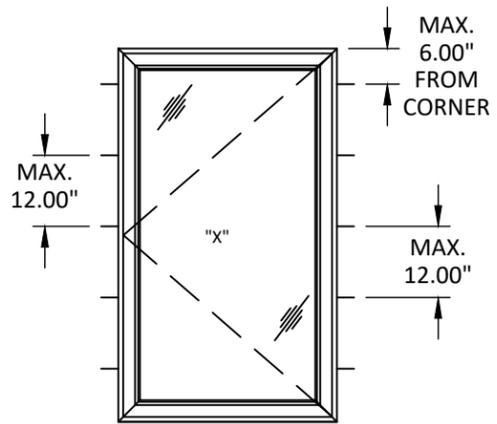
SCALE: **NTS**

DWG. #: **GIP003**

SHEET: **2** OF 5



**TYPICAL ELEVATION**  
CASEMENT WINDOW



**ANCHOR LAYOUT**  
CASEMENT WINDOW

ANCHOR SCHEDULE				
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
1/4" Ø ULTRACON BY ELCO (F <sub>u</sub> =155 KSI, F <sub>y</sub> =177 KSI)	CONCRETE AT HEAD, SILL OR JAMBS F' <sub>c</sub> =3000 PSI MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS F' <sub>m</sub> =2000 PSI MIN.	1.25	2.25	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
1/4" Ø ULTRACON BY ELCO (F <sub>u</sub> =155 KSI, F <sub>y</sub> =177 KSI)	MIN. S.G.= 0.55 WOOD	1.5	1.0"	--
#14 SMS OR SELF-TAPPING HWH SCREWS (GRADE 2)	STEEL: 18 GA. MIN., F <sub>y</sub> =36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	0.75"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
#12 SMS OR SELF-TAPPING HWH SCREWS (GRADE 5)	INTO MIAMI-DADE APPROVED MULLIONS( MIN. THK= 0.090" )(NO SHIM SPACE)			

**GLOBAL IMPACT PRODUCTS, LLC**

1963 WEST MCNAB RD,  
POMPAHO BEACH, FL 33069

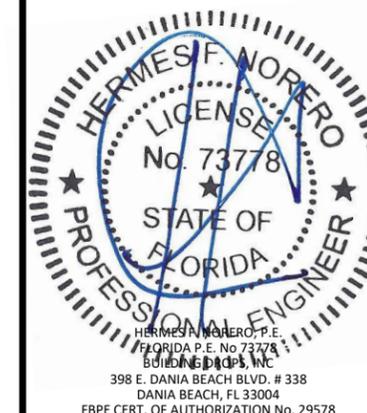
TITLE: ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL# **FL41567**

DATE: **04.28.22**

DWG. BY: **YC** | CHK. BY: **HFN**

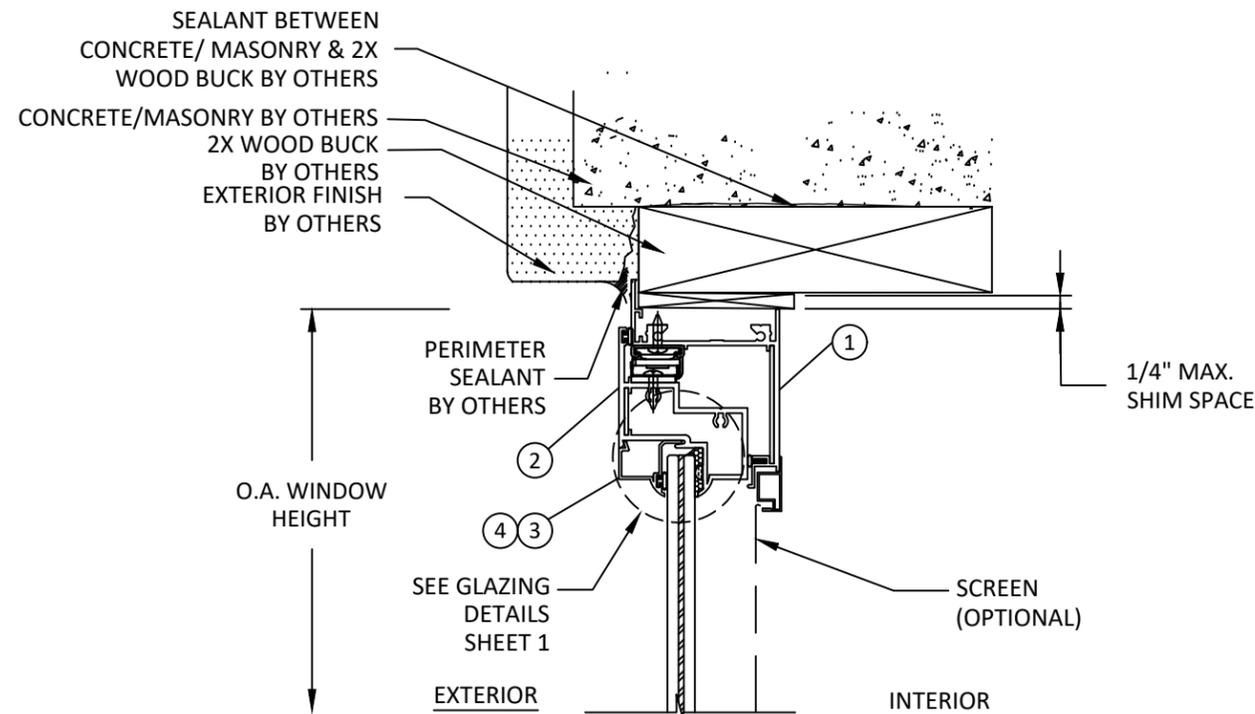
SCALE: **NTS**

DWG. #: **GIP003**

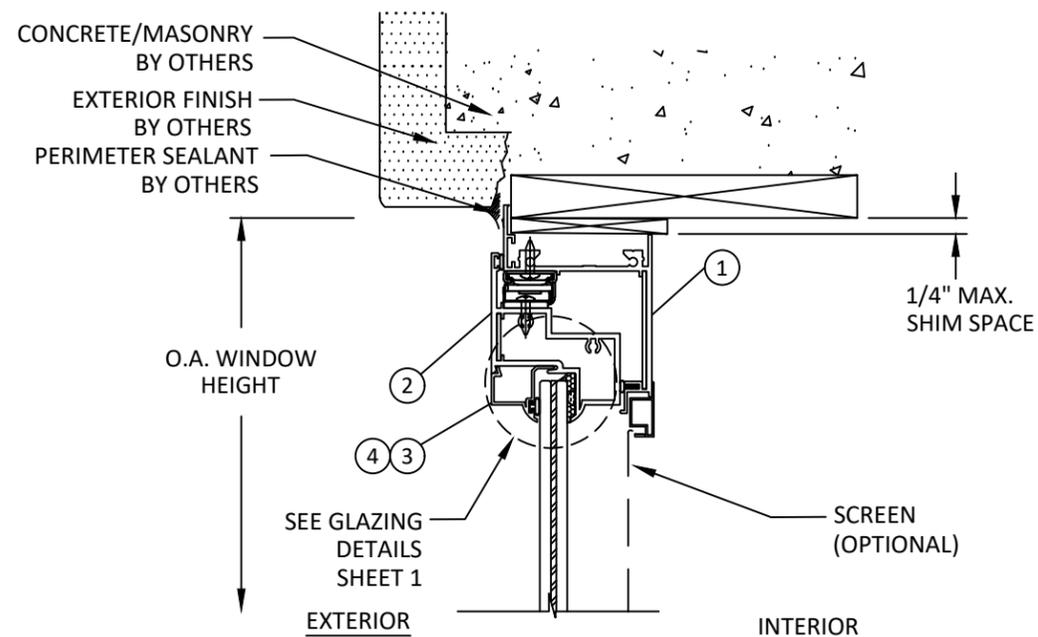
SHEET:

**3**

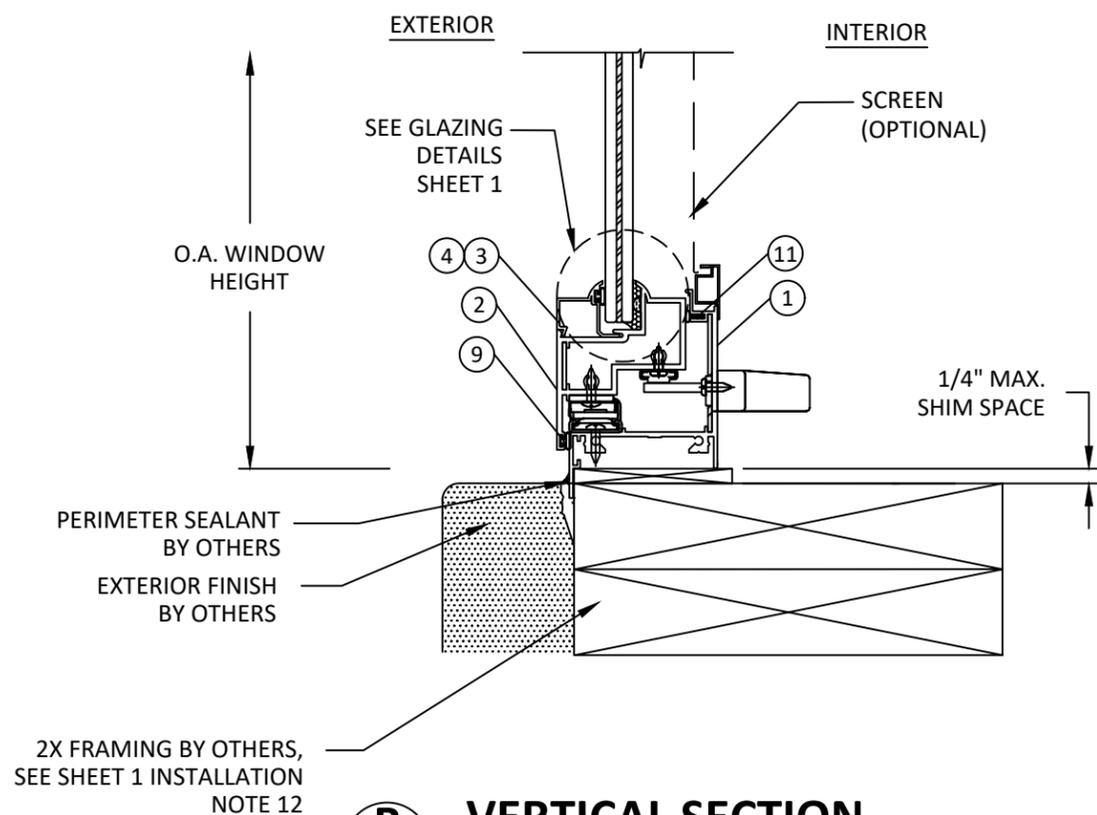
OF 5



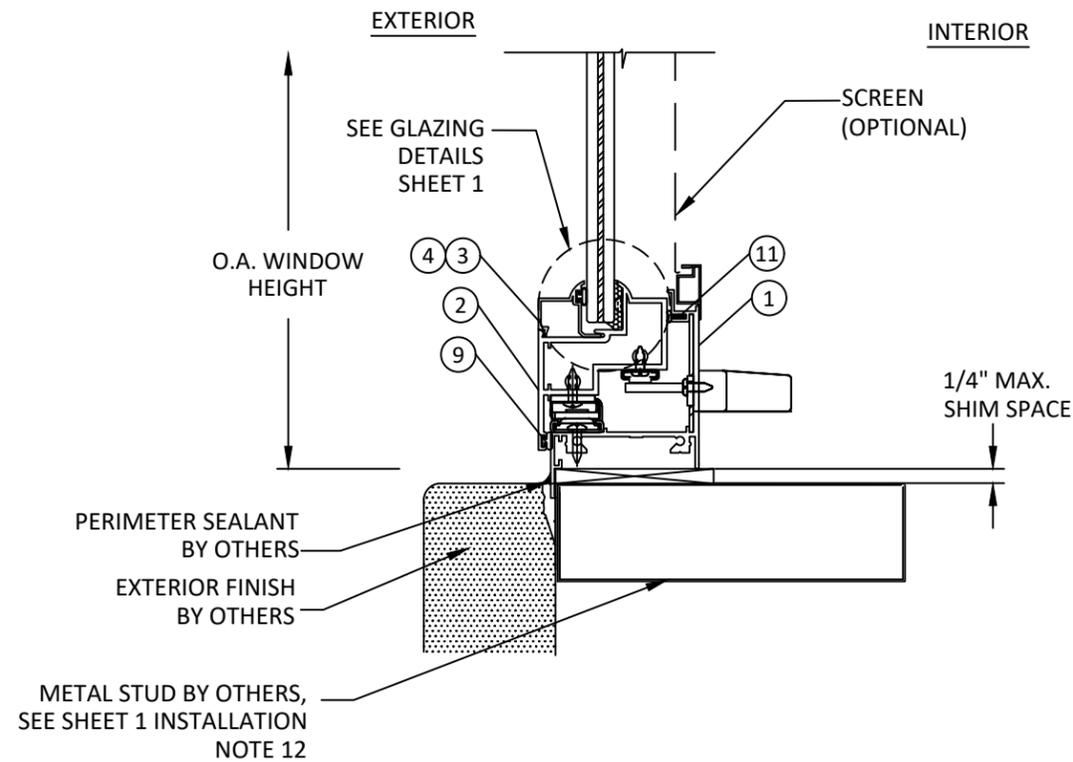
**A**  
**3** VERTICAL SECTION  
HEAD-2X WOOD BUCK



**C**  
**3** VERTICAL SECTION  
HEAD-CONCRETE/ MASONRY



**B**  
**3** VERTICAL SECTION  
SILL- 2X WOOD FRAMING



**D**  
**3** VERTICAL SECTION  
SILL - METAL SUBSTRATE

**GLOBAL IMPACT PRODUCTS, LLC**

1963 WEST MCNAB RD,  
POMPANO BEACH, FL 33069

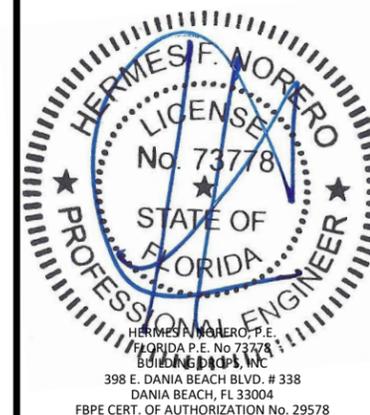
TITLE: ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HERE IN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL# **FL41567**

DATE: **04.28.22**

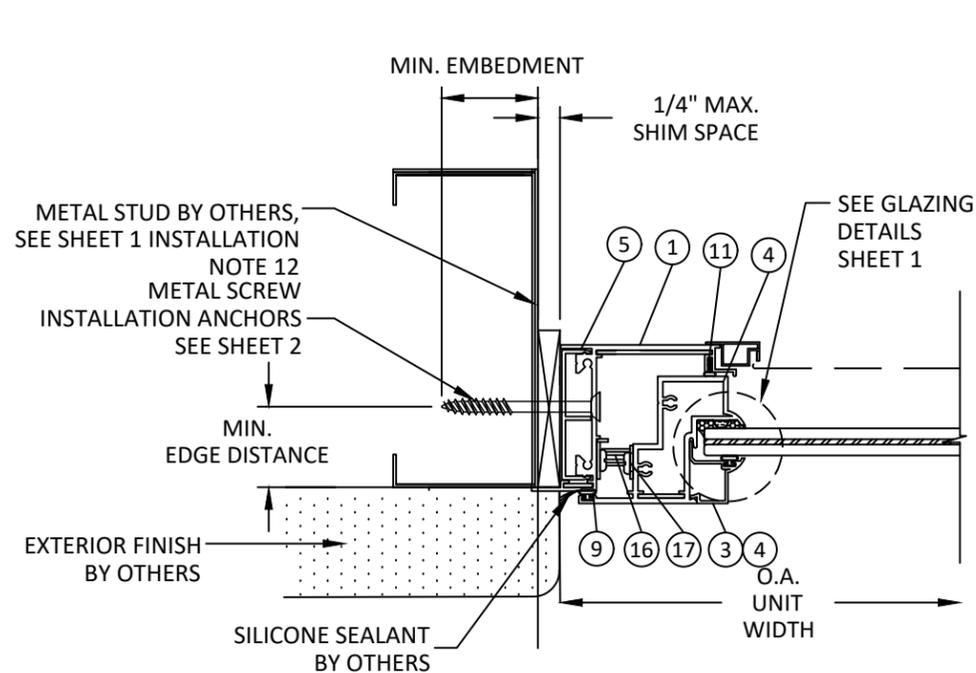
DWG. BY: **YC** | CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **GIP003**

SHEET:

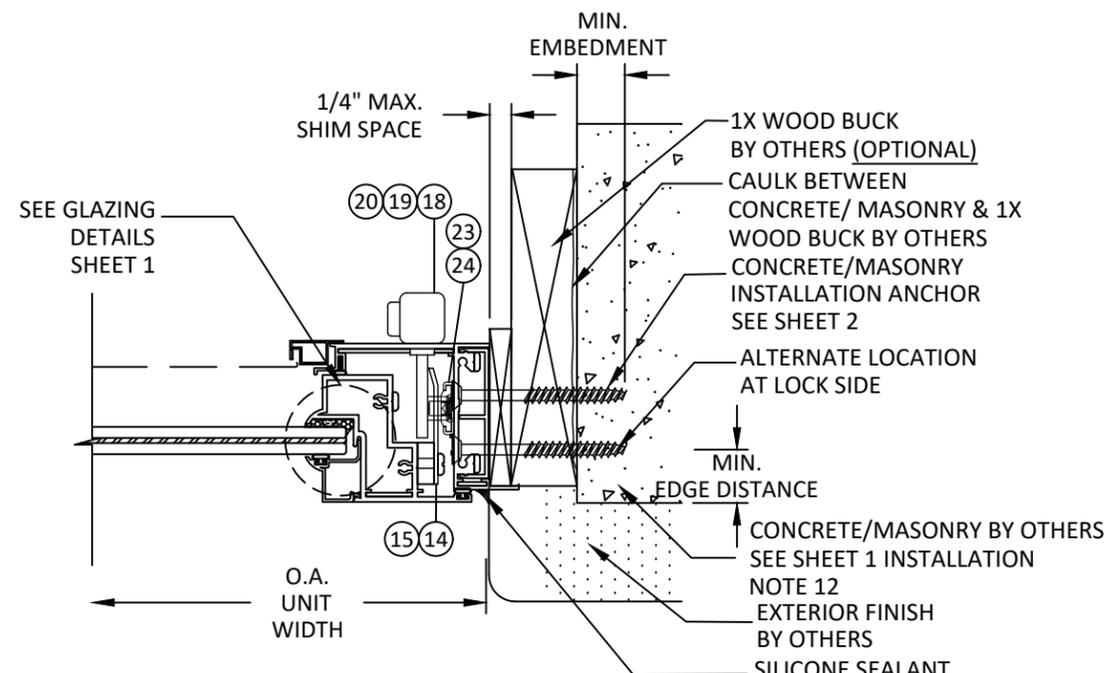
**4**  
OF 5



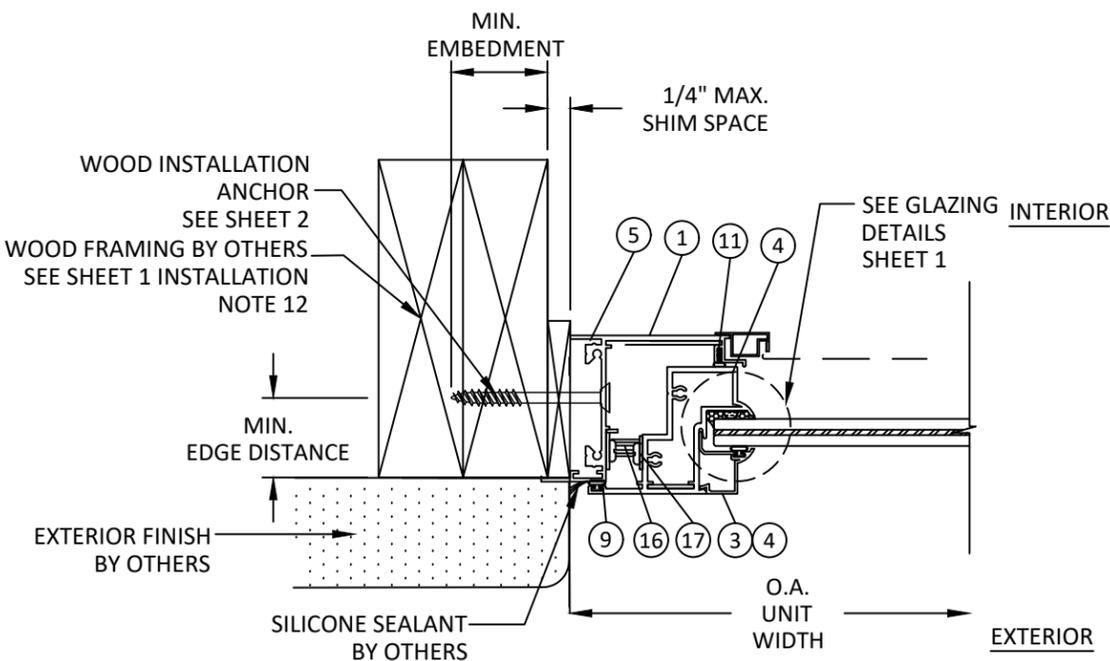
**A** HORIZONTAL SECTION  
**4** JAMB-METAL STUD THROUGH FRAME INSTALLATION

INTERIOR

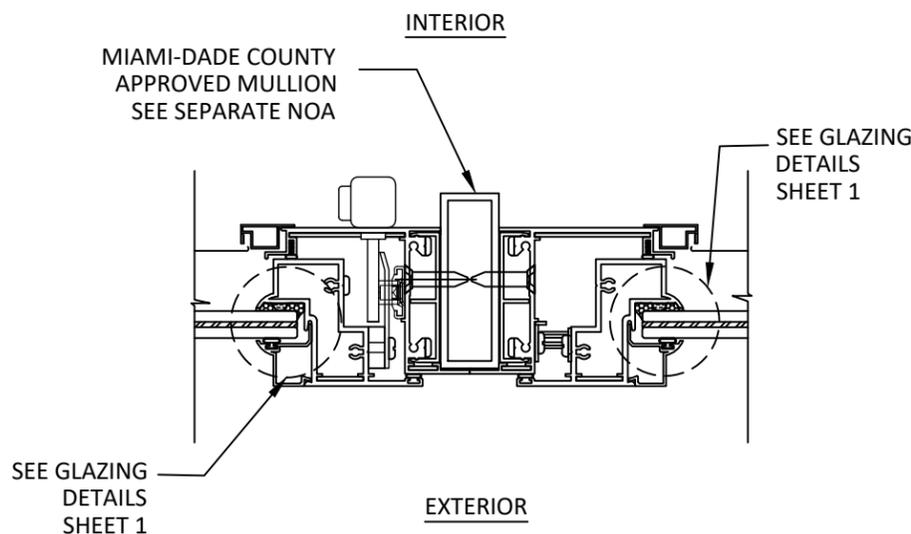
EXTERIOR



**B** HORIZONTAL SECTION  
**4** JAMB-CONCRETE/ MASONRY THROUGH FRAME INSTALLATION



**C** HORIZONTAL SECTION  
**4** JAMB-WOOD FRAMING THROUGH FRAME INSTALLATION



SEE GLAZING DETAILS SHEET 1

SEE GLAZING DETAILS SHEET 1

# GLOBAL IMPACT PRODUCTS, LLC

1963 WEST MCNAB RD,  
POMPANO BEACH, FL 33069

BILL OF MATERIALS				
ITEM	PART NO.	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
1	021-048	FRAME HEAD,SILL,JAMB	6063-T5	-
2	022-035	VENT TOP, BOT, VERTICAL	6063-T5	-
3	021-040	7/16 GLAZING BEAD	6063-T5	-
4	021-034	5/16 GLAZING BEAD	6063-T5	-
5	021-49	CANTILEVER PLATE 3" LG	6063-T6	AT ANCHOR LOCATION
6	021-050-1	FRAME CORNER KEY	6063-T6	-
7	025-050-1	SASH CORNER KEY	6063-T6	-
8	021-011	SILICONE	DOW 995	DOW
9	023-005	FOAM FILLED BULB (32005)	-	AMESBURRY
10	015-001	GLAZING VINYL	-	MASTER TOOL
11	023-004	FOAM FILLED BULB (12032)	-	AMESBURRY
12	015-006	1/8" DIA GLASS SPACER	ACRYLIC	FRANK LOW RUBBER
13	008-014	#8 X 1 PPHS SMS	ST/ST	CORNER ASSEMBLY
14	40978	KEEPER	ULTRA	ULTRA
15	# 8 X 1 PSHS SMS	KEEPER FASTENER	ST/ST	-
16	C0592	SNUBBERS SET	ST/ST	ULTRA
17	# 8 X 1 PSHS SMS	SNUBBERS FASTENER	ST/ST	-
18	31678	HANDLE	-	ULTRA
19	# 10-32 MS SELF TAP	HANDLE FASTENER	ST/ST	-
20	57750	OFFSET	ST/ST	ULTRA
21	15026R1	CRANK HANDLE	-	ULTRA
22	8300	SLIDE BAR W/ GUIDE	6063-T5	PIN ADVANTAGE MFG
23	# 10-32 MS SELF TAP	SLIDE BAR FASTENER	ST/ST	-

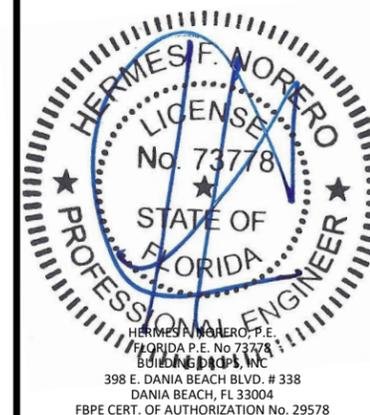
TITLE: ALUMINUM CASEMENT WINDOW (HVHZ) (IMPACT) COMPONENTS & BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL# **FL41567**

DATE: **04.28.22**

DWG. BY: **YC** | CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **GIP003**

SHEET:

**5** OF 5

